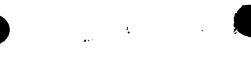
APPROVED	O.G. FIG.	
1 27	CLASS	BUBCLASS
DRAFTSMAN		





- Diazomethane, MeOH Α.
- LiBH4, MeOH в.
- PPh3, Phthalimide, DEAD c.
- TFA, CH2Cl2, NaHCO3, Methyl bromoacetate D.
- 1-Thyminylacetylchloride Ε.
- H2NNH2, Boc2O, NaOH, MBHA Lys resin F.

٢	APPROVED	O.G. FIG.	
١	BY	CLASS	SUBCLASS
١	DRAFTSMAN		

Α.

в.

Hydrazine, Ethanol Methyl bromoacetate 1-Thyminylacetylchloride c.

Figure 2

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

08/319411

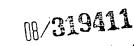
3 of 6

A. H₂NNH₂, Boc₂O/NaOH, LiBH₄/MeOH

elongation

Figure 3

I	APPROVED	O.G. F	IG.
	84	CLASS	SUBCLASS
	DRAFTSMAN	ــــــــــــــــــــــــــــــــــــــ	



4.f6

- Ethoxycarbonylphthalimide; c. EtOH, DCC, HOBT
- TFA, DCM D.
- H_2NNH_2 E.

46E

Figure 4

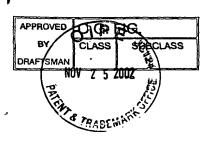
39

BnO

Glacial acetic acid, Sodiumtriacetoxyborohydride Α. в.

N-1-Carboxymethylthymine (Compound 3), 1N NaOH C.

Figure 5

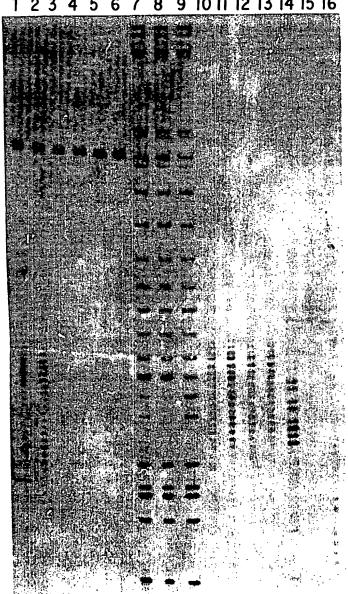




Docket No.: ISIS-1158
App No.: 08/319,411 Filed: October 6,1994
Title: PEPTIDE NUCLEIC ACID CONJUGATES
Inventors: Nielsen et al.
Attorney: John A. Harrelson, Jr., Esq.
Attorney Phone: (215) 568-3100
Sheet 6 of 6



Seq. 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



PNA Binding Site

FIG. 6